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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/526,285	03/02/2005	Nitin Bhalachandra Dharmadhikari	006420.00004	4683
22908 7590 10/06/2010 BANNER & WITCOFF, LTD.			EXAMINER	
	VACKER DRIVE		SIMMONS, CHRIS E	
CHICAGO, IL 60606			ART UNIT	PAPER NUMBER
			1612	
			MAIL DATE	DELIVERY MODE
			10/06/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/526,285	DHARMADHIKARI ET AL.	
Office Action Summary	Examiner	Art Unit	
	CHRIS E. SIMMONS	1612	
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be to divide apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	ON. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).	
Status			
1) ■ Responsive to communication(s) filed on <u>06</u> 2a) ■ This action is FINAL . 2b) ■ Th 3) ■ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pr		
Disposition of Claims			
4)	thdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the second second and the second se	ccepted or b) objected to by the e drawing(s) be held in abeyance. Section is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applica iority documents have been receiv au (PCT Rule 17.2(a)).	ition No ved in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview Summar		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail I 5) Notice of Informal 6) Other:		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/06/2010 has been entered.

Applicants' arguments, filed 05/06/2010, have been fully considered. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Election/Restrictions

Applicant submits that claim 30 should be rejoined with claim 31. Examiner disagrees because claim 30 is directed to a materially different invention as outlined previously in the 03/18/2009 Office action at page 2. Accordingly, the restriction requirement between the product and process claims, including claim 29, is still deemed proper and is now made FINAL.

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Response to Arguments

Applicant's arguments, see page 7, lines 13-14, filed 05/06/2010, with respect to the claims being obvious over Martin et al. have been fully considered and are persuasive. Applicant's argument that Martin et al. do not identify any specific particle sizes or range of particle sizes of any drug is well received. The obviousness rejection over Martin et al. in view of Scaife et al. of the claims has been withdrawn.

Claim Rejections - 35 USC § 103

Claims 1, 7, 10, 11, 14-18, 23 and 31 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Motoyama et al. (US 4,540,602) in view of Scaife et al. (US 6,407,128).

Motoyama discloses activated pharmaceutical compositions with such good redispersibility that, after oral administration, it is rapidly carried to the small intestine and readily absorbed into the blood to raise its blood concentration quickly. This process is carried out by providing a solid drug that is scarcely soluble in water (relevant to claim 7), dispersing the drug in water in the presence of a water-soluble high-molecular substance to form a disperse system containing the drug in the form of finely divided particles substantially not greater than 10 microns in diameter. (See abstract). The diameter of redispersed particles can be within the range of 0.8 to 3.5 microns (see Example 7). The examples demonstrate specific amounts of solid drugs ranging from 4mg to 50g.

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Sodium lauryl sulfate (relevant to claim 18) is a known surfactant, commonly used in the preparation of pharmaceutical products and would have been obvious to use as a surface-active agent in the Motoyama formulation with solid drug that is scarcely soluble in water.

Scaife discloses metaxolone is a hydrophobic drug that is useful for treating pain and can benefit from addition to compositions that can increase its bioavailability. About 200 to about 900 mg (400mg is exemplified) of metaxalone are therapeutic (col. 2, II. 23-24). Metaxalone is a central nervous system depressant that has sedative and skeletal muscle relaxant effects. Metaxalone is indicated as an adjunct to rest, physical therapy and other measures for the relief of discomforts associated with acute, painful muscoloskeletal conditions (col. 1, II. 21-23).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the activated pharmaceutical compositions described by Motoyama by adding metaxalone as the drug with low water solubility as Scaife describes metaxalone as a hydrophobic drug that is in need of increased bioavailability. Because Motoyama describes compositions that would increase the bioavailability of drugs with low solubility the skilled artisan have had a reasonable expectation that the composition described by Motoyama would increase the bioavailability of metaxalone.

Regarding claim 23, although Scaife et al. do not particularly recite a pharmaceutical composition comprising metaxalone and another analgesic, combining agents which are known to be useful as analgesics individually into a singe composition useful for the very same purpose is *prima facie* obvious. See In re Kerkhoven 205

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USPQ 1069. Since it is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose, the idea of combining analysesics flows logically from their having been individually taught in the prior art.

Response to arguments relevant to the new rejection

Applicant asserts that Scaife teaches a method for increasing the extent of absorption of a form of metaxalone by administering it with food, but reports the increased *extent* of absorption corresponds with a decrease in the *rate* of absorption. Thus, Applicants assert that Scaife et al teaches an inverse relationship between extent of absorption and rate of absorption.

The examiner submits that these arguments are not persuasive and does not support the claim of unexpected results.

It is noted that applicant again cites Table IIb of Scaife as evidence that an increase in the extent and rate of absorption are inversely correlated which allegedly supports the claim of achieving unexpected benefits of the current invention by increasing both rate and extent of absorption simultaneously. As such one cannot rely only on Tmax alone to make a definitive conclusion on the rate of absorption. This is supported by Scaife et al. who have demonstrated an increase in extent and rate of absorption (col. 2, lines 7-8) even though Tmax was increased (see Table IIb) when metaxalone was administered with food. Further more, as explained in the 06/26/2008 Office action at page 7 and the 03/18/2009 Office action at page 9, Tmax is a function of

elimination or excretion and is unreliable by itself as an indicator of rate of absorption. Looking at Table IIb, it would appear that since Tmax in the group with food is 4.29 hours and the Cmax is 1774 ng/mL then the rate of absorption would be 413 ng/mL/hour (i.e., 1774 ng/mL / 4.29 hours) for subjects with food. For subjects without food the rate of absorption would appear to be 296 ng/mL/hours (i.e., 983 ng/mL / 3.32 hours). Therefore, since 413 ng/mL/hour are absorbed in subjects with food and only 26 ng/mL/hour are absorbed in subjects without food, then Scaife et al. teach an increase rate of absorption in subjects with food. As such, applicant's argument that Scaife et al. teach that the rate of absorption of metaxalone is decreased when metaxalone is administered with food is incorrect. Thus Scaife et al. do not teach the inverse relationship between extent of absorption and rate of absorption alleged by applicant.

Conclusion

No claims are allowed.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRIS E. SIMMONS whose telephone number is (571)272-9065. The examiner can normally be reached on Monday - Friday from 7:30 - 5:00 PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frederick Krass can be reached on (571) 272-0580. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Allison M. Ford/ Primary Examiner, Art Unit 1651

/C. E. S./ Examiner, Art Unit 1612